

AMENDMENT TO THE CLAIMS

Please cancel claims 1-33 without prejudice.

Please retain claim 34, which is now allowed.

Please add the following new claims 35-40 as follows:

1-33 Cancelled.

34 (now allowed).

35 (New) A fluorescence electronic endoscopic system for viewing matter comprising, in combination:

- I) at least one light source for illuminating the subject matter, said at least one light source emitting light having plurality of wavelength ranges, said light comprising visible light and an excitation light;
- II) at least one filter unit, arranged between said at least one light source and the subject matter, that periodically filters said light from said at least one light source to illuminate the subject matter, said at least one filter unit comprising at least one blue filter, with or without at least one red filter, and with or without at least one green filter, such that the light filtered by said at least one blue filter functions as at least one excitation light that causes the subject matter to fluoresce and emit fluorescent light, while the light un-filtered and/or the light filtered by said at least one green filter and/or the light filtered by said at least one red filter function as at least one non-excitation light;
- III) at least one fluorescence filter, said at least one fluorescence filter preventing transmission of said at least one excitation light reflected from the subject matter but not of the fluorescent light emitted from the subject matter and said at least one non-excitation light reflected from the subject matter;
- IV) at least one image sensing system, structured and arranged to sense images of the subject matter passing through said at least one fluorescence filter, said at least one image sensing system comprising,
 - ① at least one black-and-white CCD provided inside an endoscope,
 - ② at least two video channels, wherein:

1. at least one of said video channels is structured and arranged to transmit the fluorescence image sensed during the period(s) of the excitation light(s), and
2. at least one of said video channels is structured and arranged to transmit at least one such image sensed during the period(s) of the non-excitation light(s);

V) at least one superimposing system structured and arranged to superimpose such images sensed by said image sensing system,

- ① wherein fluorescence image sensed during the period(s) of the excitation light(s) is superimposed with at least one such image sensed during the period(s) of the non-excitation light(s) to create one such superimposed image; and

VI) at least one image viewing system structured and arranged to permit viewing such at least one superimposed color image.

36 (New) The fluorescence electronic endoscopic system according to claim 35, wherein said at least one filter unit is a rotating disk upon which said at least one blue, one green and one red filters are mounted.

37 (New) The fluorescence electronic endoscopic system according to claim 35, wherein said at least one filter unit is a rotating disk upon which said at least one blue and one green filters are mounted.

38 (New) The fluorescence electronic endoscopic system according to claim 35, wherein said at least one filter unit is a rotating disk upon which said at least one blue and one red filters are mounted.

39 (New) The fluorescence electronic endoscopic system according to claim 35, wherein said at least one filter unit is a rotating disk upon which said at least one blue filter is mounted, and in which there is at least one pass-through hole.

40 (New) The fluorescence electronic endoscopic system according to any one of claims 34 and 35 further comprising at least one adjuster filter, said at least one adjuster filter decreasing only some of the excitation light intensity but most of the non-excitation light intensity from said at least one light source for illuminating the subject matter.